INACTIVE SITES RANKING SYSTEM
SUMMARY SHEET

Site Name: Waccamaw Transport

Location: 1106 S. 2nd St., Wilmington, New Hanover Co.   34.221194ºN
                                                                            77.947083ºW

ID Number: NONCD0002838

Ranked By: Ginny Henderson   Date: 12/18/08

Reviewed By: Sue Robbins   Date: 12/19/08

Site Description/Comments:

PCE detected at the site during an Environmental Site Assessment and confirmed with subsequent assessment. Trucking facility.

Route Scores: GW = 74.49   SW = 46.56   A = 0   P = 8.33

$$\frac{((\ 74.49\ )^2 + (\ 46.56\ )^2 + (\ 0\ )^2 + (\ 8.33\ )^2)^{\frac{1}{2}}}{2} = \underline{44.12}$$

Total Score:

I. GROUND WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score

A. Route Characteristics

1. Depth to Water Table   0 2 4 6 ⑧ 10

2. Net Precipitation   0 1 ② 3

3. Hydraulic Conductivity   0 1 2 ③

4. Physical State   0 1 2 ③

	Total Route Characteristics Score	16
B. Containment	0 1 2 ③	3

C. Waste Characteristics

1. Toxicity/Persistence   0 3 6 9 12 15 ⑱

2. Hazardous Waste Quantity   0 1 2 3 4 ⑤ 6 7 8

	Total Waste Characteristics Score	23

Ground Water Route of Migration Score

The Ground Water Route of Migration Score is obtained by multiplying lines
A, B, and C and dividing this by 14.82 to give a score between 0 and 100.

Total Ground Water Route of Migration Score: 74.49

II. SURFACE WATER ROUTE WORK SHEET

Rating Factor	Assigned Value (Circle One)	Score

A. Route Characteristics

1. Facility Slope and Intervening Terrain   (0) 1 2 3

2. 1-yr., 24-hour Rainfall   0 1 2 (3)

3. Distance to Nearest Surface Water   0 2 (4) 6 8 10

4. Physical State   0 1 2 (3)

Total Route Characteristics Score		10
B. Containment 0 1 2 (3)		3

C. Waste Characteristics

1. Toxicity/Persistence   0 3 6 9 12 15 (18)

2. Hazardous Waste Quantity   0 1 2 3 4 (5) 6 7 8

Total Waste Characteristics Score		23

Surface Water Route of Migration Score

The Surface Water Route of Migration Score is obtained by multiplying
lines A, B, and C and dividing this by 14.82 to give a score between 0 and
100.

Total Surface Water Route of Migration Score: 46.56

Rating Factor	Assigned Value (Circle One)	Score

A. Waste Characteristics

1. Reactivity and Incompatibility	0 1 2 3	
2. Toxicity	0 3 6 9	
3. Hazardous Waste Quantity	0 1 2 3 4 5 6 7 8	
	Total Waste Characteristics Score	0

B.   Targets

1. Population Within a 4-Mile Radius	0 9 12 15 18 21 24 27 30	
2. Distance to Sensitive Environment	0 2 4 6	
3. Land Use	0 1 2 3	
	Total Targets Score	0

Air Route of Migration Score

The Air Route of Migration Score is obtained by multiplying lines A and B and dividing this by 7.80 to give a score between 0 and 100.

Total Air Route of Migration Score: 0

IV. DIRECT CONTACT ROUTE SCORE SHEET

Rating Factor	Assigned Value (Circle One)	Score

A. Residential Population

1. Toxicity   0 3 6 9

2. Targets

   a) High Risk Population
      (count x 8, max. 100)   _____

   b) Total Resident Population
      (count x 2, max. 100)   _____

   c) Sensitive Environment   0 10 15 20 25

   Resident Target Score
   (lines 2a + 2b + 2c, max. 100)   _____

Total Residential Population Score	0

B. Nearby Population

1. Likelihood of Exposure
   (matrix score)   __0.25__

   a) Area of Contamination   0 (25) 50 75 100

   b) Accessibility/
      Frequency of Use   5 25 50 (75) 100

2. Toxicity   0 3 (6) 9
   Environment

3. Targets (max. 100)   __100__

Total Nearby Population Score	150

Overall Population Exposure Score

The Overall Population Exposure Score is determined by adding lines A and
B and dividing this by 18 to give a score between 0 and 100.

Total Population Exposure Route of Migration Score: __8.33__

DOCUMENTATION RECORDS
FOR
STATE HAZARD RANKING SYSTEM

INSTRUCTIONS: Briefly summarize the information you used to assign a score to each factor and document the source of the information and/or the rationale for each score.

Facility Name:	Waccamaw Transport	
ID Number:	NONCD0002838	
Location:	1106 S. 2nd St., Wilmington, New Hanover Co.	34.221194ºN 77.947083ºW
Date Scored:	12/18/08	
Person Scoring:	Ginny Henderson	
Factors Not Scored:	Air Route and Residential Population	

Comments:

References:

1.   State file.

2.   North Carolina Atlas, University of NC Press, Chapel Hill, NC 1975.

3.   Rainfall Frequency Atlas of the US, Technical Paper 40, US Department of Commerce, Washington, DC, 1963.

4.   2000 Census of Population and Housing: Summary Population and Housing Characteristics: North Carolina, US Department of Comerce.   http://quickfacts.census.gov/qfd/.

5.   Dangerous Properties of Industrial Materials, N. Irving Sax, Van Reinhold Company, Inc., 1984.

6.   40 CFR 300, Appendix A, July 1, 1988.

A. Route Characteristics:

   1.   Depth to Water Table: = 8   (1)

        Contaminant in groundwater

   2.   Net Precipitation: = 2   (2)

        55 in. – 43 in. = 12 in.

   3.   Hydraulic Conductivity of Unsaturated Zone: = 3   (1)

        Coastal Plain

   4.   Physical State: = 3   (1)

        Liquid

B. Containment: = 3   (1)

   None

C. Waste Characteristics:

   1.   Toxicity/Persistence: = 18   (1,5)

        PCE

   2.   Hazardous Waste Quantity: = 5   (1)

        Unknown

A.   Route Characteristics:

    1.   Facility Slope and Intervening Terrain: = 0   (1)

    FS = $\underline{30 \text{ ft.-}28 \text{ ft.}}$ = 2.4%, IT = $\underline{25 \text{ ft.-}5 \text{ ft.}}$ = 2%
           82 ft.   1,000 ft.

    2.   One-Year 24-hour Rainfall: = 3   (3)

    3.6 in.

    3.   Distance to Nearest Surface Water/Name: = 4   (1)

    ~1,350 ft., Cape Fear River

    4.   Physical State: = 3   (1)

    Liquid

B.   Containment: = 3   (1)

None

C.   Waste Characteristics:

    1.   Toxicity/Persistence: = 18   (1,5)

    PCE

    2.   Hazardous Waste Quantity: = 5   (1)

    Unknown

A.   Waste Characteristics: **<u>NOT SCORED</u>**

       1.   Reactivity and Incompatibility:

       2.   Toxicity:

       3.   Hazardous Waste Quantity:

B.   Targets: **<u>NOT SCORED</u>**

       1.   Population within 4-mile Radius/Distance from Hazardous Substance:

       2.   Distance to Sensitive Environment:

       3.   Land Use:

<div align="center">POPULATION EXPOSURE ROUTE</div>

A.   Residential Population: **NOT SCORED**

    1.   Toxicity:

    2.   Targets:

        a.   High Risk Population:

        b.   Total Resident Population:

        c.   Sensitive Environment

B.   Nearby Population:

    1.   Likelihood of Exposure Score: = 0.25

        a.   Area of Contamination: = 25   (1)

             Site is 0.36 acres

        b.   Accessibility/Frequency of Use: = 75   (1)

             No barrier to entry

    2.   Toxicity: = 6   (1,5)

        PCE

    3.   Targets: $0.1 (\underline{1,467.95}) + 0.05 (\underline{4,403.85}) = \underline{\quad 366.99 \approx 100 \text{ max} \quad}$

        a.   0- ½ mile: $3.14 \quad (0.5^2) \quad$ x $\underline{1,870}$ $^{\text{people}}/_{\text{sq.mi}}$ = $\underline{1,467.95}$ (4)

        b.   ½ - 1 mile: $3.14 \quad (1^2 - 0.5^2)$ x $\underline{1,870}$ $^{\text{people}}/_{\text{sq.mi}}$ = $\underline{4,403.85}$ (4)